

**REMARKS**

Reconsideration and allowance in view of the foregoing amendment and the following remarks are respectively requested.

Claims of 1-6, 8-12 and 16-19 are pending, claims of 1, 8, 10, 11 and 16-19 having been amended.

In the Final Office Action of February 28, 2001, the Examiner rejected claims 1-6, 8-12 and 16 under 35 U.S.C. 103 (a) as allegedly being unpatentable over U.S. Patent 5,678,228 to Soleimani et al. (Soleimani) in view of U.S. Patent 5,991,635 to Dent et al. (Dent). Applicants respectively traverse the rejection.

Claims 1-6 and 8-9 are directed to a VSAT terminal comprising a controller in communication with a user VSAT interface and in electrical connection with a microwave power amplifier and a microwave low noise amplifier for supplying power thereto. The controller is operative to provide a less-than-full electrical power supply to one of the amplifiers after a predetermined period of inactivity of the user VSAT interface and operative to provide a full electrical power supply to one of the amplifiers in the presence of a communication session. The controller is operative to provide the less-than-full electrical power supply to the one of the amplifiers until the presence of the communication session.

Soleimani discloses a VSAT terminal that has a sleep mode. As admitted by the Examiner, on page 3 of the Office Action, Soleimani does not disclose a controller being functional to dispense a less-than-full electrical power supply to either one of the amplifiers after a predetermined period of inactivity of the user VSAT interface. The examiner relies on Dent to disclose this feature.

Dent discloses a mobile telephone having reduced power sleep modes. The Examiner indicated that column 4, lines 18-39 of Dent discloses a controller being functional to dispense a less-than-full for power supply to either of the amplifiers after a predetermined period of inactivity of the user VSAT interface. Column 4, lines 18-39 of Dent discloses a portable station adopting a first sleep mode to reduce power consumption by a first factor during normally busy periods of the day that require prompt response to calls and adopting one or more alternate sleep

modes during periods of lower expected activity when a greater delay in responding to calls can be tolerated. Dent also discloses that adoption of the first or second sleep modes can occur automatically upon expiration of a timeout after a period of inactivity. However, Dent also fails to disclose the controller being operative to provide the less-than-full electrical power supply to one of the amplifiers until presence of a communication session, as required by claims 1-6 and 8-9. The mobile telephone in sleep mode, as described in Dent, must wake up periodically to determine whether a page is being received. Thus, at least the receiver of the mobile telephone must be fully powered on periodically regardless of the presence of a communication session.

Further, for at least the reasons discussed above, Applicants submit that the combination of Soleimani and Dent does not disclose, teach or suggest a controller being operative to provide a less-than-full electrical power supply to one of the amplifiers after a predetermined period of inactivity of a user VSAT interface and operative to provide a full electrical power supply to the one of the amplifiers in the presence of a communication session, wherein the controller is operative to provide the less-than-full electrical power supply to the one of the amplifiers until presence of the communication session, as recited in claims 1-6 and 8-9.

In addition, for at least of the reasons discussed above, Applicants submit that the combination of Soleimani and Dent does not disclose, teach or suggest a VSAT telecommunications network comprising a controller in communication with a user VSAT interface and in electrical connection with a microwave power amplifier and a microwave low noise amplifier for supplying power thereto, wherein the controller is operative to provide a less-than-full electrical power supply to one of the amplifiers after a predetermined period of inactivity of the user VSAT interface and operative to provide a full electrical power supply to the one of the amplifiers in the presence of a communication session, wherein the controller is operative to provide the less-than-full article power supply to the one of the amplifiers until the presence of the communication session, as required by claim 10.

Similarly, for at least of the reasons discussed above, Applicants submit that the combination of Soleimani and Dent does not disclose, teach or suggest a method for managing power consumption in a VSAT terminal, comprising providing a less-than-full electrical power supply to one of the amplifiers after a predetermined period of inactivity of a user VSAT

interface, wherein the providing of the less-than-full electrical power supply to the one of the amplifiers comprises providing the less-than-full electrical power supply to the one of the amplifiers until the presence of a communication session, as required by claims 11-12 and 16.

Further, for at least the reasons discussed above, Applicants submit that the combination of Soleimani and Dent does not disclose, teach or suggest a VSAT terminal comprising a controller in communication with a user VSAT interface and in electrical connection with a microwave power amplifier and a microwave low noise amplifier for supplying power thereto, wherein the controller is operative to provide a less-than-full electrical power supply to one of the amplifiers after a predetermined period of inactivity of the microwave low noise amplifier and wherein the controller is operative to provide the less-than-full electrical power supply to the one of the amplifiers until presence of a communication session, as required by claim 17.

Applicants further submit that claims 18 and 19 patentable over Soleimani in view of Dent, for at least the reasons discussed above, for reciting a feature similar to the feature of claim 17 discussed above.

For the reasons discussed above, Applicants submit that claims 1-6 ,8-12, and 16-19 are patentable over Soleimani in view of Dent and respectfully request that the rejection be withdrawn.

The Examiner rejected claims 17-19 under U.S.C. 103 (a) as allegedly been unpatentable over Soleimani in view of U.S. Patent 5,898,401 to Walls. Applicants respectfully traverse the rejection.

Claim 17 is directed to a VSAT terminal comprising a controller in communication with a user VSAT interface and in electrical connection with a microwave power amplifier and a microwave low noise amplifier for supplying power thereto. The controller is operative to provide a less-than-full electrical power supply to one of the amplifiers after a predetermined period of activity of the microwave low noise amplifier and operative to provide a full electrical power supply to the one of the amplifiers in the presence of a communication session, wherein the controller is operative to provide the less-than-full lexical power supply to the one of the amplifiers until the presence of the communication session.

As admitted by the Examiner on page 8 of the Office Action, Soleimani does not disclose a controller being functional to dispense a less-than-full electrical power supply to either of the amplifiers after a predetermined period of inactivity of the microwave low noise amplifier. The Examiner relies on Walls to disclose this feature.

Soleimani is concerned with reducing power consumption of a VSAT terminal, while Walls relates to a continuous wave radar altimeter, i.e. a device for determining elevation. Applicants submit that the invention of Walls is non-analogous art to the invention of Soleimani.

Further, the Examiner is of the belief that Walls, at column 5, lines 17-23, discloses a controller being functional to dispense a less-than-full electrical power supply to one of the amplifiers after a predetermined period of inactivity of a low noise amplifier. In fact, column 5, lines 17-23, discloses a low noise amplifier being switched off by a power control unit during each power pulse in order to avoid any increase in signal breakthrough from transmitter to receiver in the pulse mode. Walls discloses switching off the low noise amplifier during each power pulse, not after a predetermined period of inactivity of the microwave low noise amplifier.

For at least the reason discussed above, Applicants submit that the combination of Soleimani and Walls does not disclose the above-mentioned feature of claim 17. Applicants submit that claims 18-19 are patentable over Soleimani and Walls at least to the extent that claims 18-19 are similar to claim 17. Therefore, Applicants request that the rejection be withdrawn.

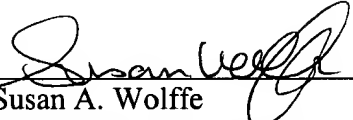
All rejections having been addressed, Applicants submit that the application is now in condition for allowance, and a Notice to that effect is earnestly solicited.

Applicants hereby petition for any fees required to maintain the pendency of this case, except for the Issue Fee, and such fee is to be charged to Deposit Account No. 19-0733.

If for any reason the Examiner is unable to allow the application on the next Office Action and feels that an interview would be helpful to resolve any remaining issue, the Examiner

is respectfully requested to contact the undersigned attorney for the purpose of arranging such an interview.

Respectfully submitted,

By:   
Susan A. Wolfe  
Registration No. 33,568

SAW/RCI/jlg

Banner & Witcoff, LTD  
1001 G Street, N.W.  
11<sup>th</sup> Floor  
Washington, D.C. 20001-4597  
Phone: (202) 508-9100  
Fax: (202) 508-9299

Date: September 30, 2002

**VERSION SHOWING MARKED-UP CHANGES****IN THE CLAIMS:**

1. (Twice Amended) A VSAT terminal comprising:

an antenna;

a microwave power amplifier;

a microwave low noise amplifier;

a transmitter coupled via said microwave power amplifier to said antenna;

a user VSAT interface; and

a controller in communication with said user VSAT interface and in electrical connection with said microwave power amplifier and said microwave low noise amplifier for supplying power thereto, said controller being operative to provide a less-than-full electrical power supply to ~~either~~ one of said amplifiers after a predetermined period of inactivity of said user VSAT interface and operative to provide a full electrical power supply to ~~either~~ said one of said amplifiers in the presence of a communication session, said controller being operative to provide the less-than-full electrical power supply to said one of said amplifiers until the presence of the communication session.

8. (Amended) A VSAT terminal according to claim 1 and wherein said controller is operative to provide a less-than-full electrical power supply to ~~either~~ said one of said amplifiers after a predetermined period of inactivity of said microwave low noise amplifier.

10. (Twice Amended) A VSAT telecommunication network comprising:

at least one satellite; and

a plurality of VSAT terminals in communication with said satellite, wherein at least one of said VSAT terminals comprises:

an antenna;

a microwave power amplifier;

a microwave low noise amplifier;  
a transmitter coupled via said microwave power amplifier to said antenna;  
a receiver coupled via said microwave low noise amplifier to said antenna;  
a user VSAT interface; and

a controller in communication with said user VSAT interface and in electrical connection with said microwave power amplifier and said microwave low noise amplifier for supplying power thereto, said controller being operative to provide a less-than-full electrical power supply to ~~either~~ one of said amplifiers after a predetermined period of inactivity of said user VSAT interface and operative to provide a full electrical power supply to ~~either~~ one of said amplifiers in the presence of a communication session, said controller being operative to provide the less-than-full electrical power supply to said one of said amplifiers until the presence of the communication session.

11. (Twice Amended) A method for managing power consumption in a VSAT terminal having an antenna, a microwave power amplifier, a microwave low noise amplifier, a transmitter coupled via said microwave power amplifier to said antenna, a receiver coupled to said microwave low noise amplifier to said antenna, a user VSAT interface, and a controller in communication with said user VSAT interface, said microwave low noise amplifier, and said microwave power amplifier, the method comprising:

providing a less-than-full electrical power supply to ~~either~~ one of said amplifiers after a predetermined period of inactivity of said user VSAT interface; and

providing a full of electrical power supply to ~~either~~ said one of said amplifiers in the presence of a communication session, wherein

said providing of the less-than-full electrical power supply to said one of said amplifiers comprises providing said less-than-full electrical power supply to said one of said amplifiers until the presence of the communication session.

16. (Amended) A method according to claim 11 and wherein said providing a less-than-full electrical power supply step comprises providing a less-than-full power supply to ~~either~~ said one

of said amplifiers after the predetermined period of inactivity of said microwave low noise amplifier.

17. (Amended) A VSAT terminal comprising:

an antenna;

a microwave power amplifier;

a microwave low noise amplifier;

a transmitter coupled via said microwave power amplifier to said antenna;

a receiver coupled via said microwave low noise amplifier to said antenna;

a user VSAT interface; and

a controller in communication with said user VSAT interface and in electrical connection with said microwave power amplifier and said microwave low noise amplifier for supplying power thereto, said controller being operative to provide a less-than-full electrical power supply to ~~either~~ one of said amplifiers after a predetermined period of inactivity of said microwave low noise amplifier and operative to provide a full electrical power supply to ~~either~~ said one of said amplifiers in the presence of the communication session, said controller being operative to provide the less-than-full electrical power supply to said one of said amplifiers until the presence of the communication session.

18. (Amended) A VSAT telecommunication network comprising:

at least one satellite; and

a plurality of VSAT terminals in communication with said satellite, wherein at least one of said VSAT terminals comprises:

an antenna;

a microwave power amplifier;

a microwave low noise amplifier;

a transmitter coupled via said microwave power amplifier to said antenna;

a receiver coupled via said microwave low noise amplifier to said antenna;

a user VSAT interface; and



a controller in communication with said user VSAT interface and in electrical connection with said microwave power amplifier and said microwave low noise amplifier support for supplying power thereto, said controller being operative to provide a less-than-full electrical power supply to ~~either~~ one of said amplifiers after a predetermined period of inactivity of said microwave low noise amplifier and operative to provide a full electrical power supply to ~~either~~ said one of said amplifiers in the presence of the communication session, said controller being operative to provide the less-than-full electrical power supply to said one of said amplifiers until the presence of the communication session.

19. (Amended) A method for managing power consumption in a VSAT terminal having an antenna, a microwave power amplifier, a microwave low noise amplifier, a transmitter coupled via said microwave power amplifier to said antenna, a receiver coupled via said microwave low noise amplifier to said antenna, a user VSAT interface, and a controller in communication with said user VSAT interface, said microwave low noise amplifier, and said microwave power amplifier, the method comprising:

providing a less-than-full electrical power supply to ~~either~~ one of said amplifiers after a predetermined period of inactivity of said microwave low noise amplifier; and

providing a full electrical power supply to ~~either~~ said one of said amplifiers in the presence of the communication session, wherein

said providing of the less-than-full electrical power supply to said one of said amplifiers comprises providing said less-than-full electrical power supply to said one of said amplifiers until the presence of the communication session.